

hiddenwires

Integrated Systems Europe

Residential Product & Technology News 2013

This special edition HiddenWires supplement covers technology for the residential custom install market at ISE 2013. For further coverage, visit ise.hiddenwires.co.uk or follow us via Twitter and our LinkedIn group. The home control market has gone through a sea change with the arrival of smartphones and tablets, and this year there are numerous apps for Apple and Android touchscreen devices, plus an increasing number of mounts and docking systems. There is still a need however, for one-touch, dedicated control, and there are many imaginative, beautiful and well-designed solutions on offer.

Behind the good-looking customer-facing hardware are the integration products, with plenty of devices for getting IR, RS232 and other control methods around the home, including an increased number of IP-based solutions. There are also various analogue and digital AV distribution products, an

increasing number of which support HDBaseT. The KNX stand hosts a number of companies offering building control products, while others are showing KNX gateways and controllers on their own stands. For home entertainment, there are new systems for wireless audio distribution, new screen and projector technologies for home cinema, and an innovative solution for 3D reproduction. Other introductions include a new under-TV sound system, a broad range of hi-fi speakers and subwoofers, and TVs and speakers for wet areas, including a completely submersible speaker.

There is also a comprehensive training programme offered by CEDIA before, during and after the show, and if you haven't already missed it, don't forget the Smart Building Conference the day before the show opens. Whatever your interest, there is plenty to see at ISE 2013. Enjoy the show!

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Home Control

KNX Association (stand 7-S200) is hosting a number of manufacturers who provide control of multimedia technology throughout the entire home and building using the KNX standard.

Divus is showing its KNX Server, a scalable visualisation system in DIN RAIL housing, plus the new Divus Optima Interface which is the front-end to the KNX Server and is designed for reliable and efficient building management.

The KNX Server from Domotica is designed as the ultimate controller tool for the KNX protocol. It allows communication between

KNX/IP networks and other systems such as ZigBee, ModBus, Dali, DMX, iDom and X-10, simultaneously. It includes a software tool for complex and logic programming, including an unlimited scenario builder. With plug-and-play features it is possible to download ready-to-go home automation applications and the system includes a free API for Windows, Linux, iOS or Android programmers.

The KNX-proServ from iKNiX is a smartphone controller for Apple and Android devices. It offers complete visualisation designed and programmed in ETS (Engineering Tool Software) with no additional software or editor required.

The new amena70-VI from tci is a wall-

mounted KNX touchpanel that offers an Android platform for building automation. It has a continuous glass multi-touch surface with the same degree of operating ease as a smartphone.

HAI by Leviton (stand 7-V160) is showing the new Omni-Bus Scene Controller. Designed for controlling 110/220/240V markets to enable the configuring of lighting scenes, Omni-Bus Scene Controller defines up to 32 different scenes and controls a total of 256 Omni-Bus load control modules. Each scene can be triggered from up to eight different Omni-Bus input device buttons, including the wall switch, wall mount remote, switch interface or key fob remote. When

Comprehensive automation and security solutions for homes and businesses. Visit our ISE booth: 7-V160.

HAI
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Pre-Show Events Monday 28 January 2013

Smart Building Conference

Location: RAI Conference Centre

Time: 10:00 - 17:30

The Smart Building Conference is designed to attract architects, design consultants, developers, electrical contractors and other key stakeholders in the construction sector, along with the integrator, distributor and manufacturer channels that represent ISE's core market. The Conference will look at how smart buildings are being designed, built and used, with expert case studies illustrating the different possibilities available in specialist technology areas such as lighting control, multimedia distribution and energy management, along with bigger-picture presentations from some of the industry's pre-eminent educators and consultants.

Inventing the Impossible: ISE 2013 Keynote Address

Location: RAI Forum

Time: 18:00 - 19:00

Cyber illusionist Marco Tempest's presentation will address the use of illusion as a creative tool and how it can be used to bring seemingly impossible scenarios to life. Using examples of magical illusion, Tempest has designed in collaboration with engineers, animators and programmers, the Keynote will focus on envisaging future technologies, the value of open-source projects and how illusion can provide an inviting gateway to social-media interactivity.

ISE's 10th Birthday Party

Location: RAI Auditorium Lounge

Time: 19:00 - 20:30

All pre-registered ISE 2013 attendees are invited to the ISE's 10th Birthday Party reception hosted by InfoComm International and CEDIA. With complimentary drinks and hors d'oeuvres, the Party is a great chance to network with peers on the eve of the opening of the show doors.

used in conjunction with an HAI by Leviton control system and Omni-Bus Interface Translator, users can trigger scenes from an HAI controller, touchscreen or smartphone/tablet application. Multiple Omni-Bus Scene Controllers may be installed on the network for additional scene capability. Omni-Bus components can be used in a standalone lighting control network, or for increased functionality, tied into an Omni or Lumina control system for automatically turning off lights when exiting the home or business to reduce energy expenses.

Among the residential solutions on show from **AMX (stands 1-F2 and 1-F6)** are the Enova DGX 16 and 32 Digital Media Switchers. Designed to distribute multiple sources of audio and video around a home network over long distances, these feature a built-in central controller that manages and distributes analogue plus digital audio and video including HDMI with HDCP, control and Ethernet. Exclusive InstaGate Pro technology allows plug-and-play operation, while built-in SmartScale technology ensures that video is scaled automatically for each connected display. The AMX Modero X Series family of frameless, panoramic and widescreen touchpanels allows the user to perform multiple activities at the same time. There are two new accessories; Multi Preview delivers preview images from as many as 10 video sources to Modero X Series touchpanels, while Multi Preview Live adds live HD video streaming. The new AMX Clear Connect Wireless Gateway allows AMX control systems to seamlessly integrate with Lutron's Clear Connect dimmers, switches, occupancy sensors, plug-in devices and keypads. This allows installers to add lighting control to AMX control systems without the significant time and cost of running wires, and offers homeowners the ability to control lighting and A/V from a single interface.

In addition to its Integrated by Design solutions for building management, **Crestron (stand 2-C24)** is providing attendees with a fully-functional integrated building environment live at the show. The

company is also showing its DigitalMedia network that is designed to make it easy and affordable to upgrade analogue A/V systems to digital and get them on the network. DigitalMedia includes everything needed to connect, display, distribute and manage all analogue and digital audio and video signals, and features a built-in managed Ethernet switch that operates in Private Network Mode - meaning the entire system uses just one IP address on the network. DigitalMedia also supports SNMP data, so IT managers can monitor the A/V system from their IT dashboard. Coming soon to select EMEA countries, Crestron shading solutions feature low-voltage Quiet Motor Technology for silent and smooth operation, and seamlessly integrate with Crestron A/V and control products via touchscreens, keypads, remotes and Apple or Android smart devices. Also on show are the Core-3-UI-powered TSW family of tablet-sized, PoE touchscreens. Available in 5", 7" and 10" models, the ultra-thin collection provides ultra-bright high-resolution graphics, capacitive touchscreen technology, edge-to-edge glass, and H.264 streaming video. All models require only a standard Ethernet cable.

Gefen (stand 1-M80) is showcasing the new GAVA (Gefen Audio/Video Automation) IP-based system that uses a configuration wizard and controls all connected A/V devices as well as lighting. GAVA has an HTML5 interface for Apple and Android touchscreen devices and uses a web browser as the control interface. By using templates and a driver library to identify and configure A/V equipment, a multizone room can be set up in just a few minutes. Once configured, GAVA retains a unique IP address so any authorised device with Wi-Fi has the ability to access and control the entire A/V system. Although designed to run on a network, it does not require Internet access, although this can be used for firmware and library updates or for remote technical support or control. GAVA can save the configuration onto hard disk, so you can essentially ship GAVA to the installation site and drop it in with total plug-



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ISE STAND 2-C24

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AMX

CEDIA Training & Certification

(Training can be booked via ISE online registration at www.iseurope.org/register or visit www.cediaeducation.com)

Monday 28 January 2013

- **CEDIA EST2 Certification Exam (English, French, Spanish and Italian)**
Location: Room D202
Time: 10:00 - 15:00
- **Home Cinema Design Workshop**
Location: Room D201
Time: 10:00 - 17:00

Tuesday 29 January 2013

- **Mobile Devices - From a personal scale experience into a home scale experience**
Location: Room D201
Time: 09:30 - 10:30
- **The Art of Project Documentation**
Location: Room D202
Time: 0930 - 1230
- **Introduction to IP**
Location: Room D201
Time: 11:00 - 12:30
- **Building and Maintaining a Profitable Website**
Location: Room D202
Time: 13:00 - 14:30
- **Technology and Consumer Trends**
Location: Room D201
Time: 13:00 - 14:30
- **Choosing and Using Control Systems**
Location: Room D202
Time: 15:00 - 16:30
- **Introduction to User Interfaces**
Location: Room D201
Time: 15:00 - 16:30

Wednesday 30 January 2013

- **Developing a Design Process for your Company**
Location: Room D202
Time: 09:00 - 10:30
- **HDMI Distribution Concepts & Technologies**
Location: Room D201
Time: 09:00 - 10:30
- **Introduction to HVAC systems**
Location: Room D202
Time: 11:00 - 12:30
- **Ultra High Definition, 4K Video, Compatibility and HDMI System Design**
Location: Room D201
Time: 11:00 - 12:30
- **Maintenance and Aftercare - Developing a Recurring Revenue Strategy**
Location: Room D202
Time: 13:00 - 14:30

and-play functionality. GAVA works with A/V receivers, matrix switchers, Blu-ray players, Apple TVs, iTunes, set-top boxes and HDTV displays. If some devices are not IP ready, GAVA can be combined with Gefen's PACS (Professional Automation Control System) or the Mini PACS bridge devices.

Designed for managing large professional and residential environments such as conference rooms, event spaces, museums, hospitality, palaces and villas, the Maxinitro from **Vity (stand 1-G100)** is a monocard controller that integrates the new MBC NITRO card based on an ARM9 processor. The new generation of Vity controllers, named Nitro Series, supports control of multiple devices such as projectors, speakers and microphones, collaboration solutions, mixers, amplifiers, Blu-ray devices, lights, HVAC, energy measurement devices and all audiovisual equipment. Maxinitro can control a large number of devices through 8 independent RS232, 8 x GPO relay outputs and one MIDI I/O as well as many other connector types. Maxinitro offers a scheduling system for predefined scenes used for automation of conference rooms, residences etc, and has a built-in web configuration page which, when coupled with Vity's V-CLOUD service, allows local or remote access for single- or multi-site maintenance in real-time. The controller is also compatible with the Vity Touch Control app for Smartphone and tablets.

ELAN (CORE Brands stand 1-N62) is debuting the new ELAN g!6.2 software update which features support for international weather forecasting, a host of new drivers, and 'back end' improvements to make it even easier for integrators to program and install. The support for true global weather forecasting allows g! customers in every part of the world to access and display weather forecasts for their geographic area. Dealers can also program specific automation trigger events, based on the local forecast, of things such as motorised window shutters and shades, internal climate set points and distribution of email alerts to the homeowner. The new ELAN g!6.2 software update also provides support for a host of new drivers, including manufacturers such as Rako, Cool Master, and Clipsal. In addition, the new update delivers an improved dealer-programming interface that further shortens the time required to program a g! system. ELAN is also announcing the availability of its g!Mobile app for Android devices as an enhancement to the g! entertainment and control system. This is built on a new programming architecture that makes it easier and faster to integrate new features and GUI enhancements. The new approach allows ELAN to manage a single GUI that provides a consistent interface with full functionality and animations on every g! user interface device including computers, ELAN

HR2 remotes and TS in-wall touchscreens, iPhones, iPads and Android smartphones and tablets. ELAN maintains that end-users will benefit by getting all of their devices updated at the same time and will be able to use nearly any touchscreen device with their system, while dealers will have an easier sell and will save on installation and support time because they no longer have to program each interface device.

BitWise Controls (stand 1-N53) is presenting version 1.8 of its Project Editor programming software that adds GUI enhancements and third-party module support to the company's IP-enabled control systems for commercial and home automation. BitWise is also announcing the BC2 automation controller hardware with half the outputs of the larger BC1, and renderings of its forthcoming hard-button RF remote control.

Lutron (stand 1-H95) is showcasing the new wireless RadioRA 2 for shades, that is ideal for retrofit and can be controlled in a wide variety of ways, including via smartphone or tablet. In addition, Lutron is demonstrating the increased functionality of HomeWorks QS and showing its extensive range of new designer blind fabrics.

Remote Control

Philips Dynalite (stand 5-S102) is launching Antumbra, a new range of networked user-interface panels that are aimed at residential and hospitality markets, and are offered at a very aggressive price-point. Philips has moved away from the standard 'square box for a button' approach, instead providing a panel that offers the entire faceplate as touch points. The Antumbra range consists of three different controls, each with a minimalistic look. One has tactile buttons; one has a clean glass finish and the third has a state-of-the-art touch-sensitive screen. The tactile panel incorporates a display and supports a thermostat. From one panel it is possible to operate lighting, blinds, HVAC and any other networked devices. Thanks to field effect technology the panel is able to detect a person's near presence by their body's own magnetic field. The panel 'wakes up' to display a light wash effect around the keypad and up to 6 buttons or touch points, complete with the option of custom labelling. At night, this trigger allows for a dimmed backlight effect for easy identification of the panel by creating a comfortable light without glare. When a person moves away, the panel will simply fade back into the wall architecture.

Pro Control (RTI stand 5-S92) is showing the ProPanel app that provides complete control over any Pro Control system containing any ProLink control processor from the convenience of their iPod touch, iPhone or iPad. ProPanel aims to stand above

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Introducing the new **Stealth Acoustics StingRay™** a hermetically-sealed environmental speaker designed to last in outdoor and marine audio applications. With no grills or exposed drivers, the **StingRay™** keeps the harshest elements out while providing surprising fidelity, bass response, wide coverage and power handling abilities.



The **StingRay™** speaker features **Stealth's** proprietary **Fidelity Glass™** radiating surface made from extremely durable and impenetrable glass fiber that completely resists elements like salt water, sunlight or extreme temperatures. The fully-sealed sleek rear enclosure is constructed from marine-grade UV protected ASA plastic. The **StingRay™** speaker is so fully protected that it's even capable of operating underwater.



The **StingRay™** can be installed in virtually any outdoor environment and is the perfect solution for boats, poolside audio, saunas, spas, patios, decks, gardens, sports facilities and ski resorts.



In any situation where **Mother Nature** would overwhelm a traditional outdoor speaker, the **StingRay™** is right at home.



Stealth Acoustics

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CEDIA Training & Certification (continued)

Wednesday 30 January 2013

- **Residential Security Fundamentals**

Location: Room D201

Time: 13:00 - 14:30

- **Extending WiFi Networks The Next Steps**

Location: Room D202

Time: 15:00 - 16:30

- **Social Media as a Marketing Tool**

Location: Room D201

Time: 15:00 - 16:30

Thursday 31 January 2013

- **HDMI Troubleshooting**

Location: Room D201

Time: 09:00 - 10:30

- **Introduction to Audio, Video and Home Cinema**

Location: Room D202

Time: 09:30 - 12:30

- **Divide & Conquer Your IP Networks**

Location: Room D201

Time: 11:00 - 12:30

- **Developing Profitable Business Processes**

Location: Room D202

Time: 13:00 - 14:30

Friday 1 February 2013

- **THX Certified Video Calibration I**

Location: Amsterdam

Saturday 2 February 2013

- **THX Certified Video Calibration II**

Location: Amsterdam

Manufacturer Training

Exhibitors including Crestron, Kaleidescape, KEF/GP Acoustics, Kramer Electronics, Lightware and Steinway Lyngdorf are also offering free training.

the large number of other control apps on the market by enhancing the control experience for end users with unique capabilities such as full two-way feedback including cover art, weather graphics, dynamic image lists, and high-resolution graphics for the newest generation of iPad.

The SURFiR companion remote from **RTI (stand 5-S92)** is designed as a new concept in wireless remote control and an affordable alternative to dedicated touchpanel controllers. It comprises a handheld remote sporting a contemporary look and feel, dual RF capability (both 433MHz and 2.4GHz ZigBee) and a remote finder beeper. It can be used with any of RTI's XP control processors, and requires minimal programming for integrators. Combined with the RTiPanel App, SURFiR allows users to incorporate their Apple and Android touchscreen devices as the main graphical interface for their control system, while adding the convenience of 'instant on' tactile control with hard buttons. SURFiR can track page changes made on an RTiPanel control app, so that the devices being controlled by a tablet or smartphone can be controlled by the SURFiR as it automatically switches to control the correct devices with no interaction required. Other new introductions from RTI include the latest additions to the XP line of control processors; the VHD-4 and VHD-8 HDMI video matrix switchers that use HDBaseT; the thinner, sleeker and more ergonomic T2i and T2x handheld controllers; the KX2 in-wall controller; and the KX7 in-wall touchpanel.

The URC Total Control range is being demonstrated by **Amber International (stand 1-P35)**. Amber is providing an interactive demo of the system's multiroom audio and control capabilities. Also on show is the URC DMS-AV amplifier which delivers audio and video to any home theatre or entertainment room, and is designed to integrate with the Total Control system. Other URC products include the new THZ-100 digital thermostat that allows householders and commercial property owners to manage their energy consumption.

Home Cinema and TV

Draper (stand 1-M43) is showing the results of its re-imagining of the company's projection screen surfaces. Following Fabric Coordinator Brian Hocker's travels around the world to view projection surface manufacturing processes and test hundreds of surfaces for dozens of qualities, a new high-tech viewing surface testing laboratory and manufacturing area were setup at Draper's headquarters. This has resulted in several new products, including Ecomatt XT700E, the first projection surface to be Cradle to Cradle Certified Silver by McDonough Braungart Design Chemistry (MBDC), and a reworking of the company's surface names to include key performance measurements. Draper now offers over 20 new and refined viewing surfaces grouped into four families: OptiView self-supporting front projection surfaces, OptiFlex tensioned front projection screens, ClearSound acoustically-transparent front projection screens and CineFlex flexible/tensioned screens for rear projection.

Vivitek (stands 4-S70 and 9-D111) is demonstrating its newly-updated range of large-venue, education and multimedia projectors, including the recently-launched D7180HD. This combines ultra short-throw technology with a Full HD picture. The projector requires zero projection distance, making it ideal for use in smaller rooms where projection distance might otherwise be an issue. It offers 3400 lumens of brightness and 1080p Full HD resolution. The D7180HD features a six-segment colour wheel as well as DLP BrilliantColor technology. It can be easily integrated into corporate networks, with the IT administration benefitting from the machine's system administration capability via RJ45. The D7180HD features a broad range of connectivity ports, including HDMI, VGA I/O, DVI-D, and USB. Moreover, lamp replacement is designed to be easy thanks to the projector's top loading capabilities.

Airflex5D (Elite Screens stand 6-H132) is showing the new AirFlex AF5D-5S passive 3D system for home theatre

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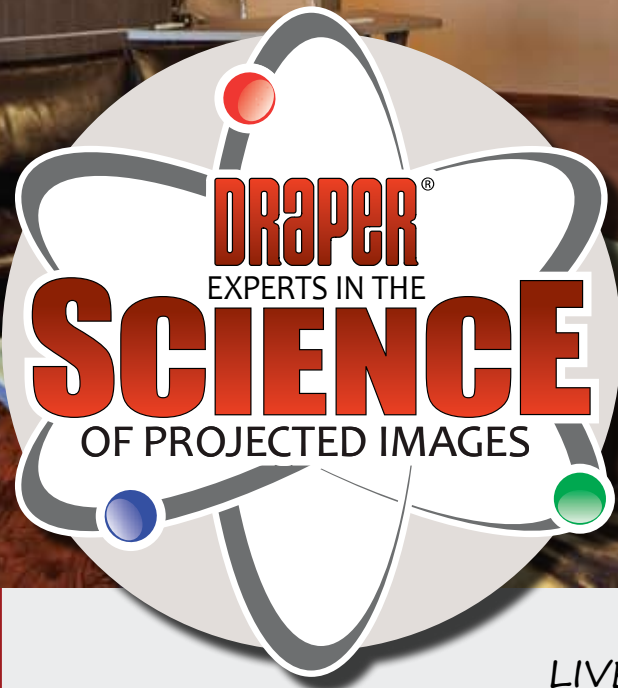
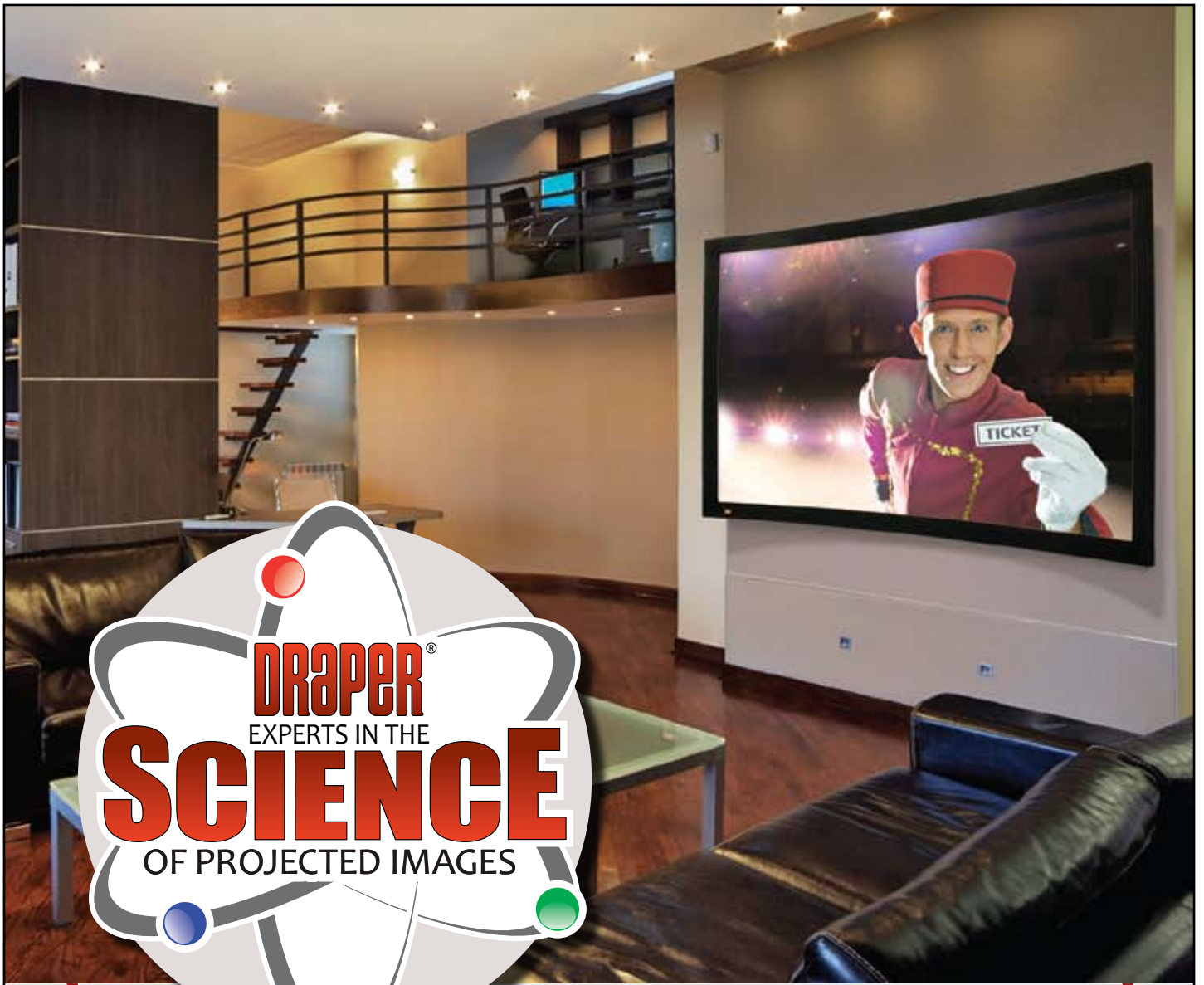
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- **Powerful**
Dual RF transmission capability
- **Intuitive**
Custom labelling
- **Convenient**
Hard buttons for instant control
- **Ergonomic**
Comfortable size and weight



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presentations. Airflex5D-5S is a projector stacking system that precisely aligns the images of multiple projectors vertically and horizontally into a single passive linear or circular 3D image. The company maintains that this is a groundbreaking opportunity for home theatre enthusiasts because it makes the superior, but costly passive 3D array, affordable to the average consumer's budget.

For those looking for lamp-free projectors which offer flexible installation and maintenance-free operation, **Panasonic (stands 1-H56 and 1-H74)** is offering the PT-RZ470/RZ370 series. The LED/Laser-combined 1-chip DLP projectors boast 20,000 hours of life and offer a Digital Link connection based on HDBaseT technology.

dnp denmark (stand 8-F230) is debuting the Supernova Blade, an ultra-thin frameless version of the dnp Supernova Screen. This is only 3mm thick and available in 100", 110" and 120" displays in 16:9 aspect ratio. A built-in optical filter in the screen's material absorbs ambient light and boosts image contrast, so there is no need to wait until after dark to start the movie. The screen can be installed wall-mounted or suspended from the ceiling.

Screen Innovations (Home Cinema Europe stand 1-N53) is promoting the new Black Diamond Zero Edge G2 as the world's first and only multi-directional ambient-light-rejecting projection screen. It features a rigid panel, a pencil-thin 10mm bezel, and can boost a projector's contrast by over 900%. Also on show is Gamma Maestro 4K, a 1.1 gain acoustically-transparent woven screen material that features black level and colour saturation enhancement.

Aquavision (stand 5-V115) is showing the new Interiors range comprising TVs that can be slotted into a standard kitchen unit space, and wafer-thin TVs that can be installed in a cabinet door. Other slim TVs on show can be installed into prebuilt furniture such as sliding wardrobe doors. Also available are the waterproof Vani-TV for the bathroom; two new models in the Frameless range designed for bathroom retailers, hotel and new-build markets; and the full HD Series 4 range featuring heated screens, RS232 connection and IR codes to integrate with most home automation systems.

Audio and Loudspeakers

NuVo Technologies (stand 5-R86) is releasing the NuVo Wireless Audio System that is designed to offer high-fidelity lossless audio and a feature set fine-tuned to the custom install market. It comprises interchangeable 40W and 120W zone amplifiers in the form of the P100 and P200 players respectively, while control over all zones is via apps for Apple and Android phones and tablets. Integration with third-

party home automation systems (such as the Control4 driver for full control offered through Extra Vegetables) is supported, and installation and setup is designed to be quick and straightforward. Each of the players is its own source device, offering streaming Internet radio, ready access to all audio content on a home's network, as well as line-level and USB inputs. Additionally, the P200 player employs the aptX audio codec, which provides 'wired' quality Bluetooth stereo audio.

Stealth Acoustics (stand 5-R116) is showcasing StingRay as the world's first, completely sealed, outdoor speaker. StingRay is based on Stealth Acoustics' advanced LRG invisible speaker platform, with bass response provided by a high-power 8" cone driver. StingRay features a completely sealed, injection-moulded enclosure constructed from marine-grade UV-protected ASA plastic. It is available in black, white or custom-printable finish, and is suited to swimming pools, patios, decks or other party areas. It can also be fitted in indoor areas such as saunas, steam rooms, spa pools and gyms. It is even capable of operating completely underwater. Other introductions from Stealth include a new generation of LRG Series invisible speakers featuring a low-profile high-power woofer for solid bass response down to 30Hz. The LRG series is an inch thinner than previous models, allowing concealment within cavities as shallow as 65mm (2.5"). In addition, the Stealth 255R integrated monaural subwoofer amplifier/crossover system offers a low-distortion power source for Stealth Acoustics wall- or ceiling-mounted invisible subwoofer panels or other unpowered subwoofer speakers.

Another waterproof speaker, the Climate from Terra Speakers, is being shown by **Amber International (stand 1-P35)**, along with TruAudio speakers which the company says are the thinnest in-ceiling speakers in the industry.

Meanwhile **Sonance (stand 1-N57)** is debuting Sonarray, a satellite and subwoofer system designed for the garden, priced at a fraction of the Sonance Landscape cost.

Niles (CORE Brands stand 1-N80) is introducing a new line of five Systems Integration Amplifiers that includes the re-tooled SI-1230 Series 2 Amplifier, the successor to the SI-1230 that was inducted to the CEDIA Hall of Fame in 2011. The three new two-channel Niles Systems Integration Amplifiers, the SI-250, SI-2100 deliver 50W, 100W, or 150W RMS per channel at 8 ohms, and 100W, 220W, or 270W RMS per channel at 4 ohms respectively. For applications requiring high output, they can also be operated in a bridged mono configuration, resulting in the delivery of 225W, 400W, or 550W respectively. The SI-1230 Series 2 Systems Integration Amplifier is a fully-configurable 12-channel power amplifier

that provides 30W per channel (80W when bridged) and can be set to left bus, right bus, summed stereo or the channel's dedicated input. The new Niles SI-1650 16-channel amplifier features a unique web browser configurator that allows each channel to select from any of the 16 inputs or combination of inputs. It delivers 50W per channel and includes a high power 100W mode. Its high- and low-pass filters allow it to be used with subwoofers and make it ideal to match with Niles' line of GS Garden Speakers.

SpeakerCraft (CORE Brands stand 1-N80) is making a European debut of the all-new SpeakerCraft CS3 TV Speaker, an under-TV sound system. This works with TVs mounted on stands or which are wall-mounted, and can support up to 160 pounds or 72.5kg. The CS3 TV Speaker includes powerful loudspeakers, built-in subwoofers and DSP technology housed in a stylish cabinet, and is designed to connect to TVs in a matter of minutes. SpeakerCraft engineers have focused on improving male and female vocals, increased higher listening levels for larger rooms and much deeper bass. The twin 5.25" (135mm) woofers in a tuned enclosure are there to produce low-end bass that flatpanel TVs cannot deliver. The inclusion of Bluetooth means that the customer can easily connect with their music library from a Smartphone, tablet or computer instead of traditional broadcast music sources. Power is provided by four 20W RMS amplifiers (80W RMS in total). An on-board limiter protects the woofers from being over-powered, while a proprietary DSP circuit provides a virtual surround soundfield that is switchable by the provided remote.

Proficient (CORE Brands stand 1-N80) is releasing three new architectural subwoofers. The new line-up includes a pair of in-wall subwoofers and an in-ceiling sub. They are designed to provide high-quality sound performance and build, at value pricing. Heading the new Proficient Architectural Subwoofer line-up is the IWS82. This dual 8" (20cm) sub employs long-excursion graphite woofers with a power handling capacity of 200W, and has a frequency response of 30-120Hz. For optimum performance, Proficient recommends coupling the IWS82 with the Proficient M3, which is a 180W mono amp with built-in crossover. The IWS82 sub is easy to install in retrofit jobs, and aims to provide a great opportunity for high profitability.

Sunfire (CORE Brands stand 1-N80) is introducing the all-new Sunfire HRSIW8. This in-wall dual-driver 8" subwoofer features anti-shake technology that virtually eliminates mechanical vibration, improving bass definition while helping to contain the bass to the room in which it is mounted. This, coupled with Sunfire's High Back-emf designed woofers, is designed to provide

pounding audiophile-grade bass from a subwoofer that easily retrofits into a standard 16" on-centre stud bay. The HRSIW8 features a frequency response of 33Hz-150Hz, maximum output of 106dB, balanced and unbalanced line level inputs, gold-plated speaker terminals and adjustable high-pass and low-pass filters. It has two custom-designed 8" long-throw woofers using ultra-low-mass fibreglass cones in a sealed cabinet that measures 12.2"W x 24.7"H x 3.75"D, and only requires a wall cut-out of 10.6"W x 23.5"H. The HRSIW8's external rackmount amplifier delivers 520W of power. Filtering adjustments are included as well as DSP with room equalisation.

Amina (BMB stands 1-P22, 1-P35 and 1-Q20) is showing the new two-way AIW750 invisible speaker. This offers 200W peak power handling (100W full continuous IEC) with an efficiency of 87dB 1m/1W after applying a full 2mm plaster skim coat.

Genelec (stand 1-G90) is introducing the G and F Series, a new range of home audio products that meet the forthcoming Energy Related Products (ErP) Directive. The G Series supports easy connectivity to sources such as home cinema amplifiers, PCs, portable music players or multiroom systems. The F Series active subwoofers extend the bass response of the G Series loudspeakers.

Wisdom Audio (stand 5-T110) is showing the Sage Series, Wisdom Series, and Insight Series, plus a 2.1-channel demo of the in-wall Insight Series P4i. The Insight Series incorporates newly-developed planar magnetic thin-film drivers and moving coil woofers, but unlike other Wisdom Audio speakers, it uses traditional passive crossovers to allow use with a single amplifier channel. Insight Series speakers also feature a newly-designed 2mm-thin, bezel-less grille that is held in place magnetically and can be ordered in custom lengths to match flat panel display heights and widths. Wisdom Audio is also partnering with digital audio processor manufacturer **Datasat (stand 3-B136)** to deliver an active home theatre demonstration.

Mounts and Racks

Chief (stand 2-C42) is showcasing a range of iPad mounting solutions that allow users to choose to carry an iPad with them, mount it at their desk or secure it to the wall. Designed to be stylish, the portable iPad interfaces work with Chief Kontour series desk mounts and all generations of the iPad. The snap fit allows easy removal for the user on the go, while the portable interface is ideal for holding a tablet on the desk. The secure interface works with Kontour series desk mounts and wall mounts, and accommodates the iPad2 and iPad with Retina display. Its tamper-resistant design deters theft and safeguards connections for cable charging and syncing. The flush-mount interface, for more permanent installations, secures the iPad to a wall or desk in any position required, and works with the iPad2 and iPad with Retina display. The tamper-resistant case also protects connections for cable charging and syncing. A weight plate accessory accommodates the minimum weight requirements of K1-series dynamic desk mounts when used with iPads. Chief has also bundled the iPad interfaces with a range of Kontour mounts for fast and simple ordering.

iDocx (stand 5-U120) is showing in-wall docking solutions for iPad and iPod Touch. The elegant designs are offered in a wide variety of standard and custom colours and materials, and are available in tamper-resistant and water-resistant models.

B-Tech International (stand 4-R70) is demonstrating the BT8310 Video Wall Mount with a 'quick-lock' system that allows video-wall screens to be locked or unlocked simply by pushing them, giving instant access for maintenance. Also on display are products designed especially for customers who require custom designs.

Vogel's Professional (stand 1-M45) is introducing the PFW 6800 series of wall mounts for XXL LCD/plasma displays up to 103" and 227kg. This offers turn, tilt, reach and rotate functionality, and is constructed for professional and residential use.

Middle Atlantic Products (stand 2-A52) is expanding its offering of C5 Series Credenza Racks to include a variety of new sizes and monitor mounting options. The line expansion includes the addition of deeper models, extender kits and single and dual monitor mounts.

Networking and Distribution

Xantech (CORE Brands stand 1-N62) is introducing XtraNet as its next-generation family of wired and wireless products for integration into commercial and home A/V systems for control of any device over an installed IP network. The XtraNet enables native IR, Wi-Fi and serial control of networked A/V devices using any IR remote or wireless, web-enabled iPad, iPhone, Android tablet or Android smartphone. The range includes standalone devices that separately provide native IR control over installed wired or wireless IP networks. The XtraNet XLIP200 is a basic I/O device for native IR over wired networks via an RJ-45 connector. The XLIP400 adds support of up to 128 macros. The XtraNet XLIP400K kit combines an XLIP400, DL95 universal IR receiver, four 283D IR emitters and a power supply for applications where a standalone native IR repeater is required. The XLIP232 adds bi-directional RS232 support, while a master device, the XLIP800 provides comprehensive system control where multiple XtraNet devices are combined on a network. This supports serial RS232/422/485, IR, digital I/O, telnet, UDP, relays and other functionality. All XtraNet devices are self-configuring when integrated into any wired network.

Among the extenders, splitters, audio converters and other products from **Atlona (stand 7-N200)** is the AT-HD-M2C. This converts multichannel audio - up to Dolby TrueHD or DTS-HD Master Audio - into a two-channel stereo format for displays and legacy devices such as AVR receivers or distribution amplifiers. The Atlona 4x4 and 8x8 HDMI Matrix Switchers route HDMI signals from four or eight sources to the

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same number of displays at resolutions of up to 1080p with support for 3D formats. Meanwhile the Atlona High-Speed HDMI 6x6 Matrix Switcher uses HDBaseT technology to extend HDMI from sources up to 70m over category cables. The matrix switcher supports control of up to twelve devices through IR remote control, RS232, TCP/IP, third-party IR control boxes, and the front panel, and supports PoE to the receivers. Atlona is also showing HDBaseT distribution amplifiers for single-to-multipoint display over distances up to 70-100m. For extending HDMI over category cable, Atlona offers three different application solutions designed to send A/V, control, and PoE over a single category cable. Furthermore, to meet the needs of UK applications, Atlona is introducing HDBaseT wall plate receivers for this range as an option to the company's traditional box designs.

HD Connectivity (stand 5-U117) is unveiling HDanywhere Modular as its first HDBaseT Matrix to be designed and built in Great Britain. HDanywhere Modular offers a customisable HDMI matrix system with flexible I/O module options that can be mixed and matched in a single system. 4x4 and 8x8 chassis models are currently available, and should a project outgrow the existing system, its modules can be ported across to a larger chassis. Modules include high-speed HDMI with Ethernet; HDBaseT (5Play 100m) supporting uncompressed HDMI, Fast Ethernet, PoE, CEC and IR over a single Cat5e/6 cable; and HDBaseT-Lite (3Play 70m) supporting uncompressed HDMI, PoE, CEC and IR over a single Cat5e/6 cable. TV location receiver modules include the standard TV-mountable 'hockey puck' style and an 'in-wall' UK wall plate back box design, all featuring PoE. The system includes on-board management software, instant port switching (IPS) and full IP control for third-party controllers. It comes bundled with free IP-drivers for major control systems including Control4, AMX, RTI, Crestron and URC.

Smart-e (stand 4-U72) is demonstrating the new FuSionHD solutions that combine HD digital with analogue A/V.

FuSionHD products merge the worlds of VGA and HDMI by combining Smart-e's range of analogue technologies with new digital features to create a range of professional A/V products that can share resources. Smart-e is also showcasing a new range of HDMI splitters which distribute video and audio signals from one source device, such as a DVD player or PC, to up to eight screens or projectors simultaneously. In addition, the SmartDigital MCT-16 high-resolution matrix switches and distributes up to 16 HDMI signals over a single CAT5e-8 cable enabling the delivery of HDMI, IR, RS232 signals and inline power over distances of up to 100m. For analogue-only applications, smart-e is offering switching and distributing multipoint-to-multipoint large scalable CAT5-8 matrices.

New additions to the **Wyrestorm (stand 5-U110)** range of HDBaseT and non-HDBaseT distribution products include HDBaseT PoE extenders with EDID management, a 24x24 multi-mode fibre matrix, a smart browser-based wireless device control system, and an HDBaseT Lite matrix with choice of multi-format transmission cards. Wyrestorm is also launching what it says is the first and only HDBaseT receiver/repeater with built-in Class D audio amplifier and bidirectional control and pass-through via IR/RS232 and 3:1 speaker breakouts.

Niveo Professional (stand 5-U120) is focusing on the Niveo Managed Switches and Managed Access Points. The Managed Switches work with both CAT and fibre optics and so match well with the recently-introduced Non-Strip Fibre solution from Planet Waves. Also on show are the Niveo NAS Series and the Niveo Wireless ADSL2/2+ Gigabit Broadband Firewall Router.

Power Management

Furman (CORE Brands stand 1-N62) is showcasing the CN-3600S E SmartSequencer. This 220V-240V, 16A capacity power management solution is the first for the EMEA

market from Furman's Contractor Series. The 1-RU unit combines optional BlueBOLT functionality with AC power distribution, protection, filtration, and sequential system power on/off. It features eight rear-panel IEC C-13 outlets, in addition to one front-panel convenience outlet, in four adjustable delay-sequence banks. The CN-3600S E allows small and large systems to be powered on and off safely even by non-technical personnel, with bidirectional communications between units, enabling a primary unit to control and sequence multiple secondary units. The CN-3600S E has an RS232 port and command set for integration with control systems. An optional RS232-to-Ethernet adaptor allows the unit to be controlled, programmed, and monitored from a smartphone, tablet, PC, or any Web-enabled device via Telnet, direct HTTP connection, or the BlueBOLT platform, enabling integrators to reboot problem components remotely to address a myriad of common system issues. Other BlueBOLT features include email alerts, scheduled commands and energy monitoring.

Tools

D-Tools (Home Cinema Europe stand 1-N53D) is demonstrating the next generation of D-Tools software, System Integrator SIX. Designed to make it easier than ever to sell, design, and deliver integration, and provide a platform for growth, System Integrator SIX is a major release that has been re-imagined and re-architected to increase efficiency and productivity for integrators of low-voltage systems. SIX leverages D-Tools' expanded cloud infrastructure to deliver high-quality equipment data, and provide partners with direct marketing services. It also establishes the foundation for future mobile and web-based applications. D-Tools System Integrator is currently used by over 4400 integration companies to streamline the design, estimation, and documentation processes associated with the installation and integration of A/V, energy/lighting, and security systems.

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